Instruction for Students

Oracle at CDM

Step 1: Downloading/Installing Oracle SQL Developer

Oracle SQL Developer is a free graphical tool designed to improve your productivity and simplify the development of everyday database tasks. It simplifies the following tasks:

- Browsing and managing database objects
- Executing SQL statements and scripts
- Editing and debugging PL/SQL statements
- ……

1) Downloading Oracle SQL Developer

You may download Oracle SQL Developer (free) software from Oracle via the link:
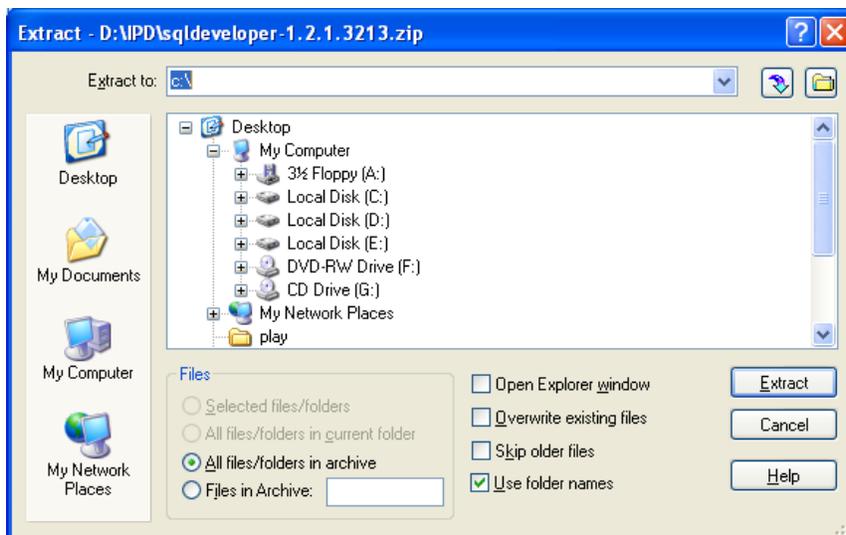https://www.oracle.com/tools/downloads/sqldev-downloads.html

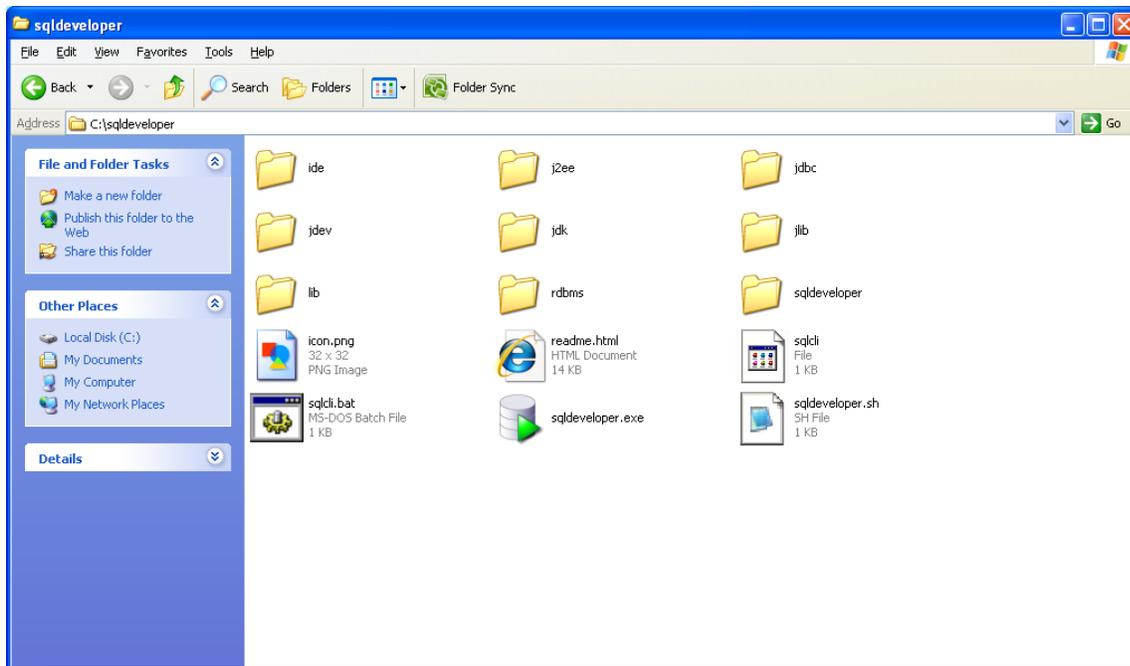**2) Installing Oracle SQL Developer**

Please make sure that you use English versions of your computer's Operating System. Your regional configuration under Windows is United States (English).

Oracle SQL Developer does not require an installer. To install Oracle SQL Developer, you will need an unzip tool. To install and start Oracle SQL Developer, follow these steps:

Unzip sqldeveloper.zip into a directory (folder) of your choice (for example: C:\)
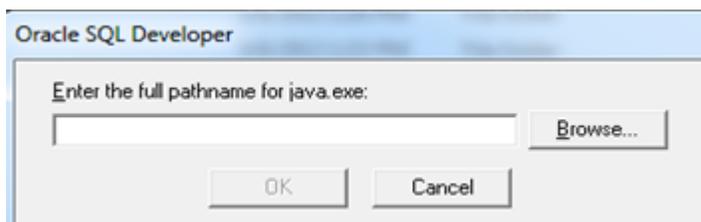

Unzipping sqldeveloper.zip causes a directory named sqldeveloper to be created under the C directory. It also causes many files and folders to be placed in and under that directory.

To start Oracle SQL Developer, go to the c:\sqldeveloper directory, and then double-click sqldeveloper.exe.

The first time you launch Oracle SQL Developer, you may be prompted to tell the location of your installed JDK. Use the Browse button to find the location of java.exe. For example, a typical installation path for JDK version 7 on Windows is "C:\Program Files\Java\jre\bin\java.exe"

Step 2: Accessing Oracle

1) Creating a Connection

A connection is an Oracle SQL Developer object that specifies the necessary information for connecting to a specific database as a specific user of that database. You must have at least one database connection to use Oracle SQL Developer.
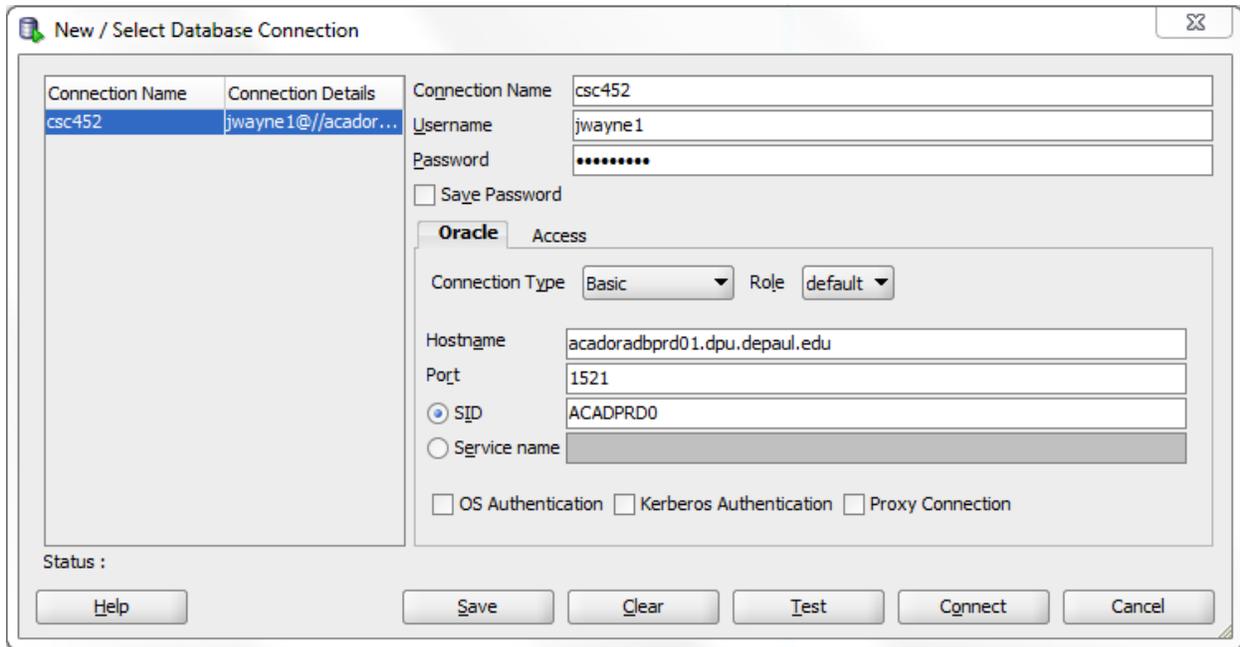
To create a connection from your Oracle SQL Developer to our database server, follow these steps:

- Right-click the **Connections** node in Oracle SQL Developer's **Connections Navigator**, and click **New Database Connection** to open the New/Select Database Connection dialog box.
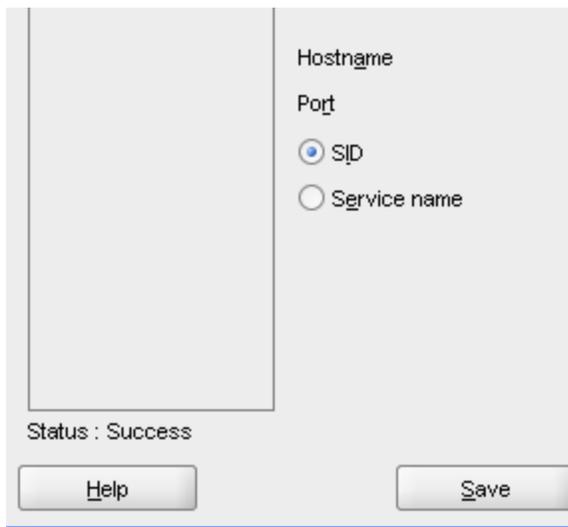
- Use the dialog box to specify information about the connection.

Connection Name	An alias for a connection to the database using the information that you enter (e.g., csc452).
Username	Your Oracle account username is the same as your Campus Connect User ID. (e.g., jwayne1)
Password	The password for your Oracle account. (The default password is "cdm" plus last 7 digits of your DePaul ID, e.g., cdm0123456.)
Save Password	Do NOT check it if that is a public or shared computer. You may check it if that is a private computer.
Oracle | Access |	Oracle
Role	This is the set of privileges to be associated with the connection. Accept **default** for this connection.
Connection Type	Select **Basic** from the Connection type list.
OS Authentication	Leave this unchecked for this connection.
Proxy Connection	Leave this unchecked for this connection.
Host Name	This is the host system for the Oracle Database instance. Enter acadoradbprd01.dpu.depaul.edu for this connection.
Port	This is the listener port for the database. The default port for Oracle Database is 1521.
SID	This is the system identifier. Enter ACADPRD0 for this connection.
Service Name	This is the network service name of the database. Leave this unchecked for this connection.

- Click **Test** to validate the new connection**.**

- If your test reports "Status: Success", click **Connect**. The Oracle SQL Developer will save the new connection, close the dialog box, and connect to the database. (If you click **Save** instead of **Connect**, you will be able to create more new connections in the dialog box before connecting.)

2) Accessing Oracle

Once you have a database connection, you are ready to browse the schema, query and modify data.

The Oracle SQL Developer window generally uses the left side for navigation to find and select objects, and the right side to display information about selected objects.

You can use the SQL Worksheet to enter and execute SQL, PL/SQL, and SQL*Plus statements. You can specify any actions that can be processed by the database connection associated with the worksheet, such as creating a table, inserting data, creating and editing a trigger, selecting data from a table, and saving that data to a file.

TIPS: Here are some tips:

Below is the Security Profile for Students:
- Maximum of 3 Sessions Allowed Per Student Account/Database
- Please Disconnect Your Session After You Have Completed Your Assignment
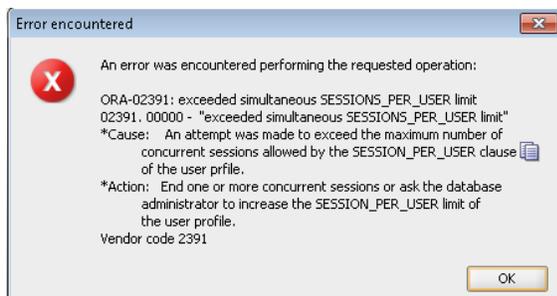- Please Use a "Commit" Statement after an Insert, Update, Delete Statement

If you have trouble trying to connect:

If you try to connect from your company machine to the CDM Oracle server, you may get the following error message:

Status: failure – Test failed: Io exception: The network adapter could not establish the connection.
The reason is that your company's network blocks the TCP port 1521. Please contact your company network manager.

Oracle Database Error Code ORA-2391:

Error Cause: An attempt was made to exceed the maximum number of concurrent sessions allowed by the SESSION_PER_USER clause of the user profile.

The maximum number of concurrent sessions is **3**.

How to Solve: End one or more concurrent sessions.

Oracle Database Error Code ORA-00054: resource busy and acquire with NOWAIT:

Error Cause: Your table is already locked by some query. For example, you may have executed "select for update, or insert, update, delete statement" and have not yet committed/rollbacked and submitted another query. It is a commonly seen error by Oracle users and occurs when a user tries to execute DDL or DML operations are being run concurrently without proper commits. SQL Statements such as INSERT, UPDATE, DELETE, ALTER or DROP.

How to Solve: Do a commit/rollback before executing your new query.

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Please report problems accessing the CDM Oracle Database Server to your instructor or **Service Now: IF you Are Not able to Terminate your Sessions on your own, and you need Assistance from DBA to Kill Connection(s) You May Choose to Open a Service Now Incident.**

 https://depaul.service-now.com/sp

Assignment Group = INF-Database

Please include your Campus Connect Userid, First Name, Last Name and DePaul Id Number in the ticket.